INTERNATIONAL JOURNAL OF PHARMACEUTICS

VOL. 96 NO. 1–3 CONTENTS 31 JULY 1993

Cited in: Current Contents (Life Sciences; Clinical Practice); International Pharmaceutical Abstracts; Biological Abstracts; Chemical Abstracts; Excerpta Medica EMBASE; PASCAL M; Science Citation Index; Current Awareness in Biological Sciences

Announcement from the Publisher v

Research Papers

Effect of the inhibitors of different steps of cholesterol biosynthesis pathway on high density lipoprotein binding to isolated human enterocytes
D.D. Sviridov, M.Y. Pavlov and V.S. Repin (Russian Federation) 1

Comparative dissolution characteristics of bropirimine-β-cyclodextrin inclusion complex and its solid dispersion with PEG 6000
S.M. Ahmed, A.A. Abdel-Rahman, S.I. Saleh and M.O. Ahmed (Egypt) 5

Investigation of *keto-enol* tautomerism and ionization of doxycycline in aqueous solutions
W. Naidong, S. Hua, E. Roets, R. Busson and J. Hoogmartens (Belgium) 13

Biodegradable microspheres: XIV. Effect of microparticle-bound primaquine on *L. donovani* in mice
P. Stjärnkvist (Sweden) 23

Release of nifedipine through crosslinked chitosan membranes
D. Thacharodi and K. Panduranga Rao (India) 33

Thermal-induced denaturation of two model proteins: effect of poloxamer 407 on solution stability
P.-L. Wang and T.P. Johnston (USA) 41

Conductivity measurement as a convenient technique for determination of liposome capture volume
D.M. Lidgate, S.G. Hegde and R. Maskiewicz (USA) 51

Spheronization conditions on spheroid shape and size
L.S.C. Wan, P.W.S. Heng and C.V. Liew (Singapore) 59

Liposomal L-asparaginase: in vitro evaluation
M.E.M. Cruz, M.M. Gaspar, F. Lopes, J.S. Jorge and R. Perez-Soler (Portugal, USA) 67

Correlation of colloidal microstructure, drug release and permeation through excised human skin
I.L. Wilisch and C.C. Müller-Goymann (Germany) 79

Determination of free amino group content of serum albumin microcapsules using trinitrobenzenesulfonic acid: effect of variations in polycondensation pH
F. Edwards-Lévy, M.-C. Andry and M.-C. Lévy (France) 85

Inclusion complexation of hydrocortisone butyrate with cyclodextrins and dimethyl-β-cyclodextrin in aqueous solution and in solid state
I.K. Chun and D.S. Yun (South Korea) 91

Percutaneous permeation of betamethasone 17-valerate from different vehicles
K. Kubota, M. Sznitowska and H.I. Maibach (USA) 105

Effect of minoxidil concentration on the deposition of drug and vehicle into the skin
J.-C. Tsai, G.L. Flynn, N. Weiner and J.J. Ferry (USA) 111

Application of low substituted hydroxypropylcellulose (L-HPC) in the production of pellets using extrusion/spheronization
P. Kleinebudde (Germany) 119

Dry and wet strengths of polymeric films prepared from an aqueous colloidal polymer dispersion, Eudragit RS30D
R. Bodmeier and O. Paeratakul (USA) 129

Preparation of chitosan-reinforced alginate gel beads – effects of chitosan on gel matrix erosion
Y. Murata, T. Maeda, E. Miyamoto and S. Kawashima (Japan) 139

An investigation into the physico-chemical properties of self-emulsifying systems using low frequency dielectric spectroscopy, surface tension measurements and particle size analysis
D.Q.M. Craig, H.S.R. Lievens, K.G. Pitt and D.E. Storey (UK) 147

The active trapping of doxorubicin in liposomes by pH gradient: photon correlation spectroscopy and fluorimetric study
M.T. Montero, A. Martí and J. Hernàndez-Borrell (Spain) 157

A numerical convective-diffusion model for dissolution of neutral compounds under laminar flow conditions
S. Neervannan, J.D. Reinert, V.J. Stella and M.Z. Southard (USA) 167

(Contents continued on p. 258)

0378-5173(19930731)96:1/3;1-B

(Contents continued from back cover)

Percolation theory: application to the study of the release behaviour from inert matrix systems
I. Caraballo, M. Fernández-Arévalo, M.A. Holgado and A.M. Rabasco (Spain) 175
Gastrointestinal transit of ^{99m}Tc-labelled oral dosage forms of sucralfate in healthy volunteers
M. Vidgren, P. Paronen, P. Vainio, K. Bergström and P. Pikkarainen (Finland) 183
Transdermal iontophoretic delivery of sufentanil
V. Préat and S. Thysman (Belgium) 189
Process variables of instant granulator and spheroniser: I. Physical properties of granules, extrudate and pellets
L. Hellén, J. Yliruusi, P. Merkku and E. Kristoffersson (Finland) 197
Process variables of instant granulator and spheroniser: II. Size and size distributions of pellets
L. Hellén, J. Yliruusi and E. Kristoffersson (Finland) 205
Process variables of instant granulator and spheroniser: III. Shape and shape distributions of pellets
L. Hellén and J. Yliruusi (Finland) 217
Study of parameters important in the spheronisation process
L. Baert, H. Vermeersch, J.P. Remon, J. Smeyers-Verbeke and D.L. Massart (Belgium) 225
Drug-excipient interactions resulting from powder mixing. VI. Role of various surfactants
J.T.H. Ong, Z.T. Chowhan and G.J. Samuels (USA) 231

Notes
Degradation and gastrointestinal stability of nitrofurantoin in acidic and alkaline media
G. Ertan, Y. Karasulu and T. Güneri (Turkey) 243
Phonophoresis of azidothymidine (AZT)
C. Pelucio-Lopes, L. Machet, L. Vaillant, F. Patat, M. Lethiecq, Y. Furet, L. Pourcelot and G. Lorette (France) 249

Author index 253

Noticeboard 255

Rapid Communications
Positively charged submicron emulsions – a new type of colloidal drug carrier
E. Elbaz, A. Zeevi, S. Klang and S. Benita (Israel) R1
Macrophage activity may be modified in vivo by galenical excipients
L. Bonhomme, E. Bizi, S. Orbach-Arbouys, J.F. Benoist and G. Fredj (France) R7